

- Large Amplitude Maneuvering Using Adaptive Critic Control, Silvia Ferrari
- Synchronous Maneuvering of Uninhabited Air Vehicles, Olivier Laplace
- The Phoenix Project, RFS for Michael Anthony, Christopher Gerson, and Primoz Skraba
- Appleseed Cluster for Parallel Computation, RFS

- Flight test aircraft for demonstration of coordinated flight of uninhabited air vehicles
- GPS, angular rates, linear acceleration, air data
- Throttle, elevator, rudder, ailerons
- Compaq Cassiopeia PDA, Tattletale-8 data logger, wireless LAN communication
- Fail-safe reversion to R/C control
- Anti-aliasing low-pass filters for accelerometers
- Digital LQG controller
- Flight tests and modular testing

Applesed Cluster for Parallel Computation

- 20 surplus PowerMac 9600/233 MHz computers
- Each computer: SPECfp95 = ~8 (~50-65 MFlops, aver. over 3 programs ~8 x SunSparc 10/40))
- Cluster (100% efficiency): SPECfp95 = 134-172 (~1 GFlop, av.; ~1 Cray X-MP or 3-4 Cray Y-MPs)
- MacMPI/PPC; OS 9 and X; AppleTalk
- Applications:
 - Stochastic Robustness Analysis and Design
 - Computational Fluid Dynamics